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Datasheet for ABIN7320596

FIL1h Protein

1 Image

Overview

Quantity:	50 µg
Target:	FIL1h
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Mouse Interleukin-36b/IL-36b Protein
Sequence:	Ser31-Lys183
Characteristics:	Recombinant Mouse Interleukin-36 beta is produced by our E.coli expression system and the target gene encoding Ser31-Lys183 is expressed.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	FIL1h
Alternative Name:	Interleukin-36b/IL-36b (FIL1h Products)
Background:	Background: Mouse Interleukin 36 beta (IL-36B) is a member of the IL-1 family of proteins. It is a cytokine that binds to and signals through the IL1RL2/IL-36R receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells linked to a pro-inflammatory response. IL-36B is synthesized in several cells including resting and activated monocytes, and

Target Details

B cells. The receptor for IL-36 beta is thought to be a combination of IL-1 Rrp2 and IL-1 RAcP. Interleukin 36 beta is one part of the IL-36 signaling system that is thought to be present in epithelial barriers and to take part in local inflammatory response, similar to the IL-1 system with which it shares the coreceptor IL1RAP. Interleukin 36 beta are involved in a number of fundamental biological processes such as stimulating production of interleukin-6 and interleukin-8 in synovial fibroblasts, articular chondrocytes and mature adipocytes, inducing expression of a number of antimicrobial peptides including beta-defensin 4 and beta-defensin 103 as well as a number of matrix metalloproteases, inducing the production of proinflammatory cytokines in bone marrow-derived dendritic cells (BMDCs), including IL-12, IL-1 beta, IL-6, TNF-alpha and IL-23, and activating p38 MAPK phosphorylation in BMDCs. Moreover, interleukin 36 beta may be involved in skin inflammatory response by acting on keratinocytes, dendritic cells, and indirectly on T cells to drive tissue infiltration, cell maturation and cell proliferation. It plays an important role in dendritic cell maturation by stimulating the surface expression of CD80, CD86 and MHC class II and inducing the production of IFN-gamma, IL-4 and IL-17 by T helper 1 (Th1) cells, cultured CD4+ T cells and splenocytes.

Synonym: IL36b, Interleukin-36 beta, Interleukin-1 family member 8, IL-1F8, Fil1e, IL1f8

Molecular Weight: 17.6 kDa

UniProt: [Q9D6Z6](#)

Application Details

Restrictions: For Research Use only

Handling

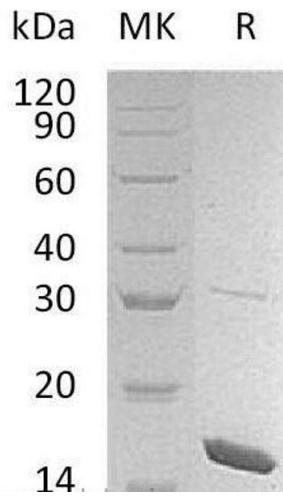
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, 1 mM EDTA, pH 8.0.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.